

CLAIMS

1. An apparatus comprising a main body unit and a stand unit having a single-axle rotation unit for supporting the main body unit, the apparatus further comprising
5 means for adjusting the inclination of the horizontal position of the main body unit where the stand unit and the main body unit are connected to one another.
2. A flat display apparatus comprising a main body unit with a display screen and a stand unit with a single rotation axle for supporting the main body unit, the
10 apparatus further comprising means for adjusting the inclination of the horizontal position of the main body unit where the stand unit and the main body unit are connected.
3. The flat display apparatus according to claim 2, further comprising means for
15 temporarily securing the stand unit and the main body unit and means for fully securing the stand unit and the main body unit where the stand unit and the main body unit are connected, wherein the stand unit and the main body unit are temporarily secure to one another and then the inclination of the main body unit is adjusted by the inclination adjusting means, before the stand unit and the main
20 body unit are fully secured to one another.
4. The flat display apparatus according to claim 2, wherein the inclination-adjusting means comprises an eccentric member disposed where the stand unit and the main body unit are connected.
- 25 5. A flat display apparatus comprising a main body unit with a display screen and a stand unit with a single rotation axle for supporting the main body unit, the apparatus further comprising:
connecting means for connecting the stand unit and the main body unit,

wherein the connecting means comprises a securing means for securing the stand unit and the main body unit to one another, and inclination adjusting means for adjusting the inclination of the horizontal position of the main body unit.

5 6. The flat display apparatus according to claim 5, wherein the connecting means further comprises a positioning pin for positioning the stand unit and the main body unit.

10 7. A flat display apparatus comprising a main body unit with a display screen and a stand unit with a single rotation axle for supporting the main body unit, the apparatus further comprising a connecting member for connecting the stand unit and the main body unit, the connecting member comprising:

 a securing opening for allowing the stand unit and the main body unit to be secured to one another with a screw; and

15 an inclination adjusting opening for adjusting the inclination of the horizontal position of the main body unit, wherein the inclination of the main body unit can be adjusted by inserting an eccentric cam into the inclination adjusting opening and rotating the eccentric cam.

20 8. A flat display apparatus comprising a main body unit with a display screen, a stand unit, and a rotation mechanism for rotating the main body unit horizontally with respect to the stand unit, wherein the rotation mechanism comprises a plurality of kinds of bearings for supporting a rotation axle.

25 9. The flat display apparatus according to claim 8, wherein the plurality of kinds of bearings comprise a combination of a radial bearing and a thrust bearing.

10. The flat display apparatus according to claim 8 or 9, wherein the plurality of kinds of bearings are mounted towards the top and bottom of the rotation axle.

11. The flat display apparatus according to any one of claims 8 to 10, wherein the center of gravity of the main body unit is located outside a reference rotation periphery defined by the thrust bearing.

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12. A flat display apparatus comprising a rotation mechanism made up of an upper unit and a lower unit, wherein the lower unit has a single rotation axle secured thereto, and the upper unit has a plurality of kinds of radial bearings supporting the rotation axle, the upper and lower units being capable of rotating relative to one another.

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13. The flat display apparatus according to any one of claims 8 to 12, wherein a stopper is disposed near the tip of the rotation axle, the stopper being secured in place while applying a certain force in the axial direction.

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14. A flat display apparatus comprising a main body unit with a display screen, a stand unit, and a rotation mechanism for rotating the main body unit horizontally with respect to the stand unit, wherein the rotation mechanism is adapted to reduce the speed of rotation upon application of a rotation load exceeding a certain level.

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15. The flat display apparatus according to claim 14, wherein the rotation mechanism comprises two or more gears and a clutch mechanism for reducing the speed of rotation between the individual gears upon application of a rotation load exceeding a certain level.

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16. The flat display apparatus according to claim 14, wherein the rotation mechanism comprises two or more gears, of which two or more gears are torque-limiting gears that are adapted to reduce the speed of rotation upon

application of a rotation load exceeding a certain level.

17. The flat display apparatus according to claim 16, wherein the torque-limiting gears include an upper gear and a lower gear, wherein the upper and lower gears are adapted to frictionally slide upon one another upon application of a rotation load exceeding a certain level.

18. The flat display apparatus according to claim 16, wherein the torque-limiting gears include a gear base, an upper gear secured to the gear base, and a lower gear disposed between the gear base and the upper gear, wherein the gear base has a friction member disposed on the surface thereof facing the lower gear, and wherein a resilient member is disposed between the upper and lower gears, the resilient member being adapted to press the lower gear against the friction member such that the lower gear and the gear base frictionally slide upon one another.

19. The flat display apparatus according to any one of claims 1 to 18, wherein the rotation mechanism includes a drive motor and is capable of automatic rotation.

20. The flat display apparatus according to claim 19, further comprising means for receiving remote operation, wherein the rotation of the rotation mechanism is controlled by remote operation.

21. The flat display apparatus according to any one of claims 14 to 20, wherein the rotation mechanism includes a position sensor and is capable of recognizing its own rotation position.

22. The flat display apparatus according to claim 14, wherein the rotation mechanism is adapted to reduce the speed of rotation between the motor and the

gears or between the gears, the rotation mechanism further comprising a torque-limiting gear, wherein the speed of rotation is reduced as an upper gear and a lower gear of the torque-limiting gear frictionally slide upon one another.

- 5 23. The flat display apparatus according to claim 22, wherein the torque-limiting gear includes a gear base to which the upper gear is secured, and wherein the lower gear is disposed between the gear base and the upper gear, wherein the gear base has a friction member disposed on the surface thereof facing the lower gear, and
- 10 a resilient member is disposed between the upper and lower gears, the resilient member being adapted to press the lower gear against the friction member such that the lower gear and the gear base frictionally slide upon one another.

24. The flat display apparatus according to any one of claims 1 to 23, wherein the
- 15 display screen includes a liquid crystal display, a plasma display, or an EL display.